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Application : 10/007,153 **Examiner :** File **GAU :** 2634

From: PAP **Location:** (IDO) FMF FDC **Date:** 12/12/05

Tracking #: Epm 10/007153 Week Date: 7/19/05

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Aris Papasakellariou
Serial No:	10/007,153
Filed:	12/4/2001
Art Unit:	2634
Examiner:	E. File
Docket No.:	TI-32538
Conf. No.:	1130
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CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that the following papers are being transmitted by facsimile to the U.S. Patent and Trademark Office at **571-273-9009** on the date shown below:

Gracia Sansom — Gracia Sansom

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FACSIMILE COVER SHEET

_X_ FACSIMILE COVER SHEET (1 SHEET)	___ AMENDMENT _____
___ NEW APPLICATION	___ EOT _____
___ DECLARATION	___ NOTICE OF APPEAL
___ ASSIGNMENT	___ APPEAL _____
___ FORMAL DRAWINGS	___ ISSUE FEE
___ INFORMAL DRAWINGS	___ REPLY BRIEF (IN TRIPLICATE)
___ CONTINUATION APP'N	_X_ **Notice to File Corrected Application Papers**
___ DIVISIONAL APP'N	

NAME OF INVENTOR(S): Aris Papasakellariou	RECEIPT DATE & SERIAL NO.: **Serial No.: 10/007,153**
TITLE OF INVENTION: Spreading Factor Estimation System and Method	**Filing Date: 12/4/2001**
TI FILE NO.: **TI-32538** / DEPOSIT ACCT. NO.: **20-0668**	**Conf. No.: 1130**
FAXED: **01/30/2006** DUE: ATTY/SEC'Y: **CHH/gs**	

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UNITED STATES PATENT AND TRADEMARK OFFICE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Serial Number
10007153

Date Mailed
12/28/05

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given 30 days from the mail date of this Notice within which to correct the informalities indicated below. A failure to reply will result in the application being ABANDONED. This period for reply is NOT extendable under 37 CFR 1.136 (a) or (b).

- Specification page 1, line 4 serial number and filing date missing. Fax missing information to number below or e-mail.
    - For status updates visit http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR System, contact the Electronic Business Center (EBC) toll free at 866-217-9197.

APPLICANT MUST SUPPLY MISSING INFORMATION WITHIN 30 DAYS OF THE MAIL DATE OF THIS NOTICE.

A copy of this notice MUST be returned with the reply. Please address response to Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

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SPREADING FACTOR ESTIMATION SYSTEM AND METHOD

CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims priority from provisional applications: Serial No. 60/263,669, filed 01/23/01. The following patent applications disclose related subject matter: Serial Nos. 09/....., ~~filed .... (——)~~. These referenced applications have a common assignee with the present application.

10/176,156, filed 06/20/2002

BACKGROUND OF THE INVENTION

The invention relates to electronic communications, and more particularly to CDMA-based coding, transmission, and decoding/synthesis methods and circuitry.

Code division multiple access (CDMA) coding has been extensively used in such applications as cellular and satellite communications. CDMA signals increase the spectrum required for the transmission at a particular data rate by modulating each data symbol with a spreading code having a rate larger than the data rate. The same spreading code is used for each data symbol. Typically, the spreading code comprises of a few tens or a few hundreds of elements, called chips. To decrease the correlations among spreading codes assigned to different users, and thereby reduce the interference among different users, the data stream after spreading is typically scrambled with a pseudo-noise (PN) code that is generated serially and cyclically and has a larger period than the spreading code. Examples of such CDMA signal spreading are the schemes used by the IS-95/CDMA2000 and 3GPP systems.

With CDMA, the signals from all users simultaneously occupy the same frequency band, and the receiver separates the multiple signals by exploiting the crosscorrelation properties of the spreading and scrambling codes that are applied to each user's signal. The receiver attempts to match in time the spreading and scrambling codes of the desired signal with a replica of these codes. Only then the demodulation result is meaningful; otherwise it appears noise-like. Thus, if the arriving signals have different codes or different code offsets, they can be discriminated at the receiver. The CDMA code for each user is typically produced as the modulo-2 addition of a Walsh code with a pseudo-random code (two pseudo-